# **BIOLOGY I PLANNED COURSE/CURRICULUM GUIDE**

#### PART A

COURSE DESCRIPTION: The study of life.

Page 1

### WRITTEN BY:

	Case 4:04-cv-0		Document :	107-3	Filed 07/15/05
3 days	2 days	3 days	8 Days	TIME (WEEKS/CLASSES)	GRADE(S): 9 WRITTEN BY:
Students will be able to use a microscope properly. Students will differentiate between the scanning electron, transmission electron, compound light, and stereomicroscopes.	Students will be able to list, define, and give examples of the levels of organization in biology from atoms to biosphere.	Students will be able to list and define the characteristics of life.	Chapter One- The Science of Biology	UNIT CONTENT/CONCEPTS/ PROCESS	COURSE LENGTH: 90 days
3.7.10.A 3.7.10.B	3.3.10.A	3.3.10.A		STATE STANDARD (NAT. STANDARD)	ΓΗ: 90 days DURATION:
Lab Lecture Demonstration Homework	Student activity Student discussion	Lecture Labs Teacher demonstration Student discussion		INSTRUCTIONAL STRATEGIES, LEARNING PRACTICES ACTIVITIES AND EXPERIENCES	ON: 90 min. pds. FREQUENCY: 6 out of 6
Textbook Microscope Lab Microscope handout Microscope drawing guide	Levels of Organization WS Pyramid activity	Biology: The Living Science Textbook Living/Nonliving collage		MATERIALS AND RESOURCES	of 6

# **BIOLOGY CHAPTER 1 PLANNED COURSE/CURRICULUM GUIDE**

#### PART B

INTEGRATION  INTEGRATION  Mathematical conversions Artistic expression  Problem solving techniques	OPPORTUNITIES
Research Expand Research the diffe organiza Lab repo	S ENRICHMENT,
Mode One-c Provi Allow	REMEDIATION AND
AND PORTFOLIO OPPORTUNITIES Unit One Exam Laboratory activities Quizzes Homework	ASSESSMENTS

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## DOVER AREA SCHOOL DISTRICT

# **BIOLOGY I PLANNED COURSE/CURRICULUM GUIDE**

#### PART A

COURSE DESCRIPTION: The study of life

**COURSE LENGTH: 90 days** 

GRADE(S): 9

WRITTEN BY:

DURATION: 90 minutes FREQUENCY: 6 out of 6

	Cas	e 4:04-cv	-02688-JEJ	Document	107-3
3 days	1 day	1 day		<b>11 days</b> 1 dav	TIME (WEEKS/CLASSES)
Students will be able to build	Students will be able to define the characteristics of carbohydrates and their building blocks.	Students will be able to identify acids and bases by their pH values.	differentiate between organic and inorganic molecules. Students will be able to experiment with and define the properties of water.	Chapter 2 – The Chemistry of Life  Students will be able to	UNIT CONTENT/CONCEPTS/ PROCESS
3.3.10.B	3.3.10.B 9.3.9.E	3.3.10.B		3.3.10.B	STATE STANDARD (NAT. STANDARD)
Lab	Lecture Student activity	Lecture Lab	Lecture Homework	Lab	INSTRUCTIONAL STRATEGIES, LEARNING PRACTICES ACTIVITIES AND EXPERIENCES
Pasta Power packet	Pasta Power packet Carbohydrate activity	Acid/Base Lab	Periodic tables Water lab	Textbook	MATERIALS AND RESOURCES

<b>_</b>	Case 4:04-cv-02688-J			07/15/05 Pag	e 4 of 24	
	1 day	2 days	1 day	1 day	1 day	
	Students will be able to qualitatively test food products for the presence of specific organic compounds.	Students will be able to identify the characteristics of proteins and their functions within the human body.	Students will be able to calculate percentage of body fat using the skin calipers. Students will be able to qualitatively test for lipids.	Students will be able to identify the characteristics of lipids and the functions of lipids in the body.	Students will be able to perform qualitative tests on foods.	structural models for all types of carbohydrates.
	3.3.10.B	3.3.10.B	3.3.10.B 9.3.9.D	3.3.10.B 9.3.9.D	3.3.10.B 9.3.9.E	
	Lab	Lecture Student activity	Student activity Lab	Lecture Student activity and practice	Lab	Student activity
	Biochemistry Lab Lab write up	Protein activity	Percent body fat calculation Lipid lab	Cholesterol video Lipid activity	Carbohydrate lab Pasta Power packet	Molecular Model Lab

# BIOLOGY I – CHAPTER 2 PLANNED COURSE/CURRICULUM GUIDE

PART B

Family and Consumer Sciences Nutritional and dietary planning Writing	OPPORTUNITIES FOR INTEGRATION
Plan a weekly diet incorporating each organic compound. Build models of each of the compounds.	ENRICHMENT, AND EXPANDED OPPORTUNITIES
Outline to support comprehension Help students with vocabulary terms Break down information into shorter tests	REMEDIATION AND INTERVENTION STRATEGIES
Chapter 2 Exam  Lab activities  Lab write-up  Pasta Power writing activity  Homework assignments	ASSESSMENTS AND PORTFOLIO OPPORTUNITIES

# **BIOLOGY I PLANNED COURSE/CURRICULUM GUIDE**

#### PART A

COURSE DESCRIPTION: The study of life

**COURSE LENGTH: 90 days** 

DURATION: 90 minutes FREQUENCY: 6 out of 6

### WRITTEN BY:

GRADE(S): 9

	<u> </u>	04-CV-02088-JEJ			107-3
2 days	3 days		1 day	8 days	TIME (WEEKS/CLASSES)
The students will be able to identify the parts of a cell under the microscope.	The student will be able to diagram a typical animal or plant cell and explain the functions of the organelles.	eukaryotic and a prokaryotic cell. The student will be able to explain how the cell shape relates to its function. The student will be able to differentiate between a plant and an animal cell.	The student will be able to differentiate between a	Chapter 3 – Cell structure and function	UNIT CONTENT/CONCEPTS/ PROCESS
3.3.10.A 3.3.10.B	3.3.10.A 3.3.10.B		3.3.10.A 3.3.10.B		STATE STANDARD (NAT. STANDARD)
Lab	Student project		Lecture Demonstration		INSTRUCTIONAL STRATEGIES, LEARNING PRACTICES ACTIVITIES AND EXPERIENCES
Cell lab Microscopes	Textbook Internet Power point presentation Cell project outline Computer lab	Cell pictures	Textbook Computer		MATERIALS AND RESOURCES

C	Case 4:04-cv-02688-JEJ	Document 107-3		Page 7	
				1 day	1 day
			using dialysis tubing.	The student will be able to determine the rate of osmosis	The students will be able to differentiate between passive and active transport, diffusion and osmosis, and hypertonic, hypotonic, and isotonic.
			3.3.10.B	3.3.10.A	3.3.10.A 3.3.10.B
				Lab	Lecture Demonstration Student activity
				Rate of osmosis lab	Hypertonic, hypotonic, and isotonic worksheet

# BIOLOGY I – CHAPTER 3 PLANNED COURSE/CURRICULUM GUIDE

PART B

Physics – lenses Medicine	OPPORTUNITIES FOR INTEGRATION
Describe how osmosis affects living things (i.e. penicillin).	ENRICHMENT, AND EXPANDED OPPORTUNITIES
Read tests Group study sessions Help student with vocabulary terms	REMEDIATION AND INTERVENTION STRATEGIES
Chapter 3 Exam Cell Project Lab activities	ASSESSMENTS AND PORTFOLIO OPPORTUNITIES

# **BIOLOGY I PLANNED COURSE/CURRICULUM GUIDE**

#### PART A

COURSE DESCRIPTION: The study of life

GRADE(S): 9

WRITTEN BY:

**COURSE LENGTH: 90 days** 

DURATION: 90 minutes FREQUENCY: 6 out of 6

	Case 4:04-c	v-02688-JEJ D	ocument	107-3
1 day	2 days	1 day	8 days	TIME (WEEKS/CLASSES)
The student will be able to	The student will be able to describe the structure of ATP and how it is used by the body for the energy.	The students will be able to explain how energy is stored in ATP. To list how energy is converted from one form to another.	Chapter 4 – Energy and the Cell	UNIT CONTENT/CONCEPTS/ PROCESS
3.3.10.B	3.3.10.B	3.3.10.B		STATE STANDARD (NAT. STANDARD)
Lab	Student activity	Lecture Demonstration		INSTRUCTIONAL STRATEGIES, LEARNING PRACTICES ACTIVITIES AND EXPERIENCES
Fermentation Lab	ATP advertisement activity	Textbook Lime water demonstration		MATERIALS AND RESOURCES

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	1 day		2 days 1 day	
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	The student will be able to identify the pigments found in leaves and the function of those pigments.	describe the light and dark reactions of photosynthesis. The student will be able to describe the function of chlorophyll.	The student will be able to describe the overall reaction of cellular respiration.  The student will be able to	demonstrate fermentation and to determine the reactants and products.
	3.3.10.B		3.3.10.B 3.3.10.B	
	Lab	Demonstration	Student activity  Lecture	
	Separation of Leaf Pigments Lab		Diagram cellular respiration  Textbook	

# BIOLOGY I – CHAPTER 4 PLANNED COURSE/CURRICULUM GUIDE

### PART B

Physics Industrial uses of fermentation Mathematical equations Chemistry Aerobic and anaerobic exercises	OPPORTUNITIES FOR INTEGRATION
Report on industrial uses of fermentation Muscles and ATP Define aerobic and anaerobic exercises Explain the function of other pigments in plants ex. Flower petals	ENRICHMENT, AND EXPANDED OPPORTUNITIES
Highlight important reactions Break down reactions into small steps Small group study sessions	REMEDIATION AND INTERVENTION STRATEGIES
Chapter 4 Exam ATP advertisements Lab activities Cellular respiration posters	ASSESSMENTS AND PORTFOLIO OPPORTUNITIES

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## DOVER AREA SCHOOL DISTRICT

# **BIOLOGY I PLANNED COURSE/CURRICULUM GUIDE**

#### PART A

COURSE DESCRIPTION: The study of life

GRADE(S): 9

**COURSE LENGTH: 90 days** 

DURATION: 90 minutes FREQUENCY: 6 out of 6

## WRITTEN BY:

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2 days	1 day	(WEEKS/CLASSES) 7 days	TIME
Students will be able to identify stages of mitosis under the microscope.	Students will be able to differentiate between asexual and sexual reproduction. Students will be able to list reasons a cell would undergo mitosis.	PROCESS  Chapter 5 – Cell Division  Chapter 6 – Genetics	UNIT CONTENT/CONCEPTS/
3.3.10.C.1	3.3.10.C.1 3.3.10.C.3	(NAT. STANDARD)	STATE STANDARD
Lab	Lecture Filmstrip Demonstration	ACTIVITIES AND EXPERIENCES	INSTRUCTIONAL STRATEGIES, LEARNING PRACTICES
Microscope Onion root tip slides Fish blastula slides Colored pencils TV projection microscope	Dukane filmstrip Overhead projector Colored pencils Mitosis/Meiosis packet		MATERIALS AND RESOURCES

1 day

Students will be able to

3.3.10.C.1

Lab

Bead kit

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	1 day	1 day		1 day	
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	Students will be able to diagnose a chromosomal abnormality using a karyotype.	Students will be able to draw the stages of meiosis to demonstrate what occurs in each stage.	reasons for undergoing meiosis and compare it to mitosis. Students will be able to define tetrad, homologous chromosomes, diploid, haploid, gametes, zygote.	Students will be able to describe what occurs in each stage of mitosis. Students will be able to list	demonstrate their knowledge of the stages of mitosis and cytokinesis using beads and colored pencils.
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	3.3.12.C.4	3.3.10.C.3		3.3.10.C.1	
	C.4	).C.3		).C.1	
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	Student activity/lab	Student activity		Quiz Lecture	Student activity
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	ty/lab	ty			ty
	K	C M		9888	20
	Karyotype lab	Mitosis/Meiosis Colored pencils		Mitosis Quiz Mitosis/Meiosis pad Meiosis Overhead Overhead projector	Colored pencils Chalk
	pe lab	Meios pencii	, -	Quiz Meios Overl	penci
		Mitosis/Meiosis packet Colored pencils		Mitosis Quiz Mitosis/Meiosis packet Meiosis Overhead Overhead projector	1s
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# BIOLOGYI - CHAPTERS 5 & 6 PLANNED COURSE/CURRICULUM GUIDE

PART B

Math Art Health	OPPORTUNITIES FOR INTEGRATION
Research and report on how mitosis is related to cancer. Interview a genetic counselor to learn the problems that can occur with meiosis and aging. Differentiate between males and females undergoing meiosis.	ENRICHMENT, AND EXPANDED OPPORTUNITIES
Outline to support comprehension Help students with vocabulary terms Break down information into shorter tests	REMEDIATION AND INTERVENTION STRATEGIES
Mitosis Quiz Meiosis Quiz Lab reports Mitosis/Meiosis Exam Cancer research paper	ASSESSMENTS AND PORTFOLIO OPPORTUNITIES

# **BIOLOGY I PLANNED COURSE/CURRICULUM GUIDE**

#### PART A

### WRITTEN BY:

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1 day	1 day	1 day	12 days	TIME (WEEKS/CLASSES)	WRITTEN BY:	GRADE(S): 9	COURSE DESC		
Students will be able to	recessive, phenotype, and genotype, and generation names.  Students will be able to investigate some human traits that are inherited by simple dominant and recessive alleles.	Students will be able to describe Mendel's study on pea plants. Students will be able to define homozygous, heterozygous, dominant, and	Chapter 6 – Genetics Chapter 7 – Human Inheritance	UNIT CONTENT/CONCEPTS/ PROCESS		COURSE LENGTH: 90 days	COURSE DESCRIPTION: The study of life		BIOLOG
3.3.10.C.2	3.3.10.C.6	3.3.10.C.4		STATE STANDARD (NAT. STANDARD)		TH: 90 days		PART A	BIOLOGY I PLANNED COURSE/CURRICULUM GUIDE
Research	Lab	Lecture Student activity		INSTRUCTIONAL STRATEGIES, LEARNING PRACTICES ACTIVITIES AND EXPERIENCES		DURATION: 90 minutes FREQ			CURRICULUM GUIDE
Library	Human Genetics Lab Investigating Human Traits Lab Coins	Mendel worksheet		MATERIALS AND RESOURCES		FREQUENCY: 6 out of 6			

Secret of Life video	Video and discussion	3.3.10.D.4	Students will be able to	1 day
Pedigree problems Multiple gene problems	Lecture Student practice	3.3.10.C.6	Students will be able to describe the results of multiple gene and pedigree problems.	1 day
Bloodtyping problems Paternity Test Lab	Lecture Student practice Lab	3.3.10.C.6	Students will be able to cross variations of a multiple allele problem and predict the results. Students will be able to determine the paternity of a baby using knowledge of bloodtyping genetics.	1 day
Sex-linked problems	Lecture Student practice	3.3.10.C.6	Students will be able to cross variations of a sex-linked trait and predict the results.	1 day
Codominant problems	Lecture Student practice	3.3.10.C.6	Students will be able to cross variations of a codominant trait and predict the results.	1 day
Dihybrid problems Corn dihybrid lab Investigation of Dihybrid Crossing	Lecture Student practice Lab	3.3.10.C.6	Students will be able to cross variations of two traits and predict the results.	1 day
Monohybrid problems	Lecture Student practice	3.3.10.C.6	Students will be able to cross two monohybrid traits and describe the resulting offspring.	1 day
Internet Research activity			research a genetic disease.	

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		1 day	1 day	
		Students will be able to describe several genetic disorders.	Students will be able to discuss the ramifications of using DNA to design their own children and cloning.	discuss the controversy of nature vs. nuture.
		3.3.10.C.2	3.3.10.D.4	
		Student oral reports	Video and discussion	
		Genetic disorder reports grade sheets	Secret of Life video collection TV/VCR Video questionnaire	collection TV/VCR Video questionnaire

# BIOLOGY I – CHAPTERS 6 & 7PLANNED COURSE/CURRICULUM GUIDE

## PART B

Health Family and Consumer Sciences Mathematics	OPPORTUNITIES FOR INTEGRATION
Fruit fly cross Pedigree analysis of family	ENRICHMENT, AND EXPANDED OPPORTUNITIES
Allow more time for tests Break down problems into steps Individual instruction Study guides After school tutoring	REMEDIATION AND INTERVENTION STRATEGIES
Monohybrid Quiz Dihybrid Quiz Codominant Quiz Sex-linked Quiz Bloodtyping Quiz Multiple Gene Quiz Genetics Exam Lab write-ups	ASSESSMENTS AND PORTFOLIO OPPORTUNITIES

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## DOVER AREA SCHOOL DISTRICT

BIOLOGY I PLANNED COURSE/CURRICULUM GUIDE

#### PART A

COURSE DESCRIPTION: The study of life

GRADE(S): 9

COURSE LENGTH: 90 days

**DURATION: 90 minutes** 

FREQUENCY: 6 out of 6

### WRITTEN BY:

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1 day	1 day	1 day	1 day	TIME (WEEKS/CLASSES) 9 days
Students will be able to	parts.  Students will be able to discuss the applications of using DNA in criminal trials.	Students will be able to construct a DNA model, drawing and labeling all	Engineering  Students will be able to describe the structure of DNA, where its found, and its function.	CONTENT/CONCEPTS/ PROCESS Chapter 8 – DNA and RNA Chapter 9 – Genetic
3.3.10.C.7	3.3.10.C.5	3.3.10.C.5	3.3.10.C.5	STATE STANDARD (NAT. STANDARD)
Lecture	Video and discussion	Student activity	Lecture Student activity	INSTRUCTIONAL STRATEGIES, LEARNING PRACTICES ACTIVITIES AND EXPERIENCES
DNA packet	Murder, Rape, and DNA video Video questionnaire	DNA kits Colored pencils	DNA packet DNA kits	MATERIALS AND RESOURCES

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1 day	1 day	1 day	1 day	1 day	
Students will be able to discuss the real world implications of genetic recombination.	Students will be able to describe how scientists manipulate DNA to insert certain genes.	Students will be able to define and describe types of chromosomal and gene mutations.	Students will be able to synthesize the information on protein synthesis using models and a strand of DNA to code for traits on a make believe animal.	Students will be able to describe the steps of translation and diagram those steps.	describe the steps of transcription and diagram those steps.
3.3.12.C.3	3.3.12.C.3	3.3.10.C.2	3.3.10.C.7	3.3.10.C.7	
Video and discussion Readings	Lecture Lab	Lecture Students activity	Lab Student activity	Lecture Student activity	Student activity
The Mouse that Laid the Golden Egg video "Your World" magazines	Genetic Manipulation Lab	Textbook Colored pencils	DNA packet DNA kits Protein synthesis lab	DNA packet DNA kits Colored pencils	DNA kits Colored pencils

# BIOLOGY I - CHAPTERS 8 & 9 PLANNED COURSE/CURRICULUM GUIDE

PART B

	T
Art Health	OPPORTUNITIES FOR INTEGRATION
Human Genome Project report DNA fingerprinting and electrophoresis	ENRICHMENT, AND EXPANDED OPPORTUNITIES
Study guides Tests read to students More time to take test DNA manipulatives	REMEDIATION AND INTERVENTION STRATEGIES
DNA Exam DNA Performance Exam Lab write-ups	ASSESSMENTS AND PORTFOLIO OPPORTUNITIES

# BIOLOGY I PLANNED INSTRUCTION/CURRICULUM GUIDE

PART A

COURSE DESCRIPTION:

The study of life

WRITTEN BY:

GRADE(S):

COURSE LENGTH: 90 days

FREQUENCY: daily

**DURATION:** 

90 minutes

1 day 1 day 1 day 2 days 1 day 19 days (WEEKS/CLASSES) TIME gaps/problems in Darwin's Theory and Students will be made aware of used to support Darwin's theory of the including, but not limited to Intelligent of other theories of evolution Origins of Species. Students will be able to list evidences Students will be able to define types of population size. competition and how they relate to population sizes. Students will be able to determine how organisms have to survive in this biomes and list the adaptations that Students will be able to describe world. Students will be able to discuss limiting factors work to limit environment. the variability found in nature. Darwin's observations of the living Students will be able to discuss **Biodiversity** Chapter 11 - The Mechanism of Chapter 12 – The Origins of Evolution Chapter 10 – Natural Selection CONTENT/CONCEPTS/ PROCESS UNIT 3.3.10.D.1 3.3.10.D.6 3.3.10.D.1 3.3.10.D.6 3.3.10.D.6 3.3.10.D STATE STANDARD (NAT. STANDARD) **ACTIVITIES AND EXPERIENCES** INSTRUCTIONAL STRATEGIES, Lecture Lab Lecture Lecture Lecture Video Student activity Student reports Lecture Research Mini Lab LEARNING PRACTICES People Biochemical Evidence **Evolution Worksheet** Video questionnaire Worksheets Green peppers Art supplies Library Graph paper Reference: Of Pandas and Lab TV/VCR Textbook Internet Textbook Textbook MATERIALS AND RESOURCES

Note: The Origins of Life is not taught.

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3 days	1 day	I day	1 day	1 day	1 day	1 day	1 day	3 days	TIME (WEEKS/CLASSES)
Students will be able to discuss the importance of biodiversity and list reasons why organisms have become extinct.	Students will be able to differentiate between adaptive radiation and convergent evolution.	Students will be able to list how species change due to reproductive isolation.	Students will be able to describe how speciation takes place using Darwin's finches as an example.	Students will be able to graph the types of selection using human height	Students will be able to differentiate between disruptive, directional and stabilizing selection.	Students will be able to design a species placed under climatic pressure.	Students will be able to define natural selection and artificial selection and demonstrate the process.	Students will be able to make a time line that demonstrates evolutionary changes during the history of earth.	UNIT CONTENT/CONCEPTS/ PROCESS
3.3.10.D.3	3.3.10.D.6	3.3.10.D.6	3.3.10.D.6	3.3.10.D.6	3.3.10.D.6	3.3.10.D.6	3.3.10.D.6	3.3.10.D.5	STATE STANDARD (NAT. STANDARD)
Lecture Student Research and Activity	Lecture Student Activity	Video and Discussion	Lecture Lab	Student Activity	Lecture Student Activity	Lecture Student Activity	Lab Lecture	Lab	INSTRUCTIONAL STRATEGIES, LEARNING PRACTICES ACTIVITIES AND EXPERIENCES
Endangered species trading cards	Textbook Backyard evolution activity	Voyage to the Galapagos Video Video questionnaire	Pliers lab	Textbook Graph paper Colored pencils	Darwin meets DNA activity Textbook	Darwin meets DNA activity Textbook	Textbook Simulating Natural Selection Lab	Textbook Simulating Natural Selection Lab	MATERIALS AND RESOURCES

# BIOLOGY I – CHAPTERS 10, 11, 12 PLANNED COURSE/CURRICULUM GUIDE

PART B

Earth Science Math Writing	OPPORTUNITIES FOR INTEGRATION
Research dinosaur extinction Create a phylogenetic tree on any species Fossil studies of Pennsylvania	ENRICHMENT, AND EXPANDED OPPORTUNITIES
Study guides Extra time on tests One-on-one instruction	REMEDIATION AND INTERVENTION STRATEGIES
Evolution Exam Lab write-ups Projects	ASSESSMENTS AND PORTFOLIO OPPORTUNITIES